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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/939,833

DATE: 05/21/2002
 TIME: 14:22:49

Input Set : N:\Crf3\RULE60\09939833.raw
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1 <110> APPLICANT: McTIGUE, MICHELE A.
2   WICKERSHAM, JOHN A.
3   PINKO, CHRIS
4   SHOWALTER, RICHARD
5   PARAST, CAMRAN V.
6   TEMPZYK-RUSSEL, ANNA
7   GEHRING, MICHAEL R.
8   MROCKOWSKI, BARBARA
9   KAN, CHEN-CHEN
10  VILLAFRANCA, J. ERNEST
11  APPELT, KRZYSZTOF
12 <120> TITLE OF INVENTION: MODIFICATIONS OF THE VEGF RECEPTOR-2 PROTEIN AND
13  METHODS OF USE
14 <130> FILE REFERENCE: 0125-0016US
15 <140> CURRENT APPLICATION NUMBER: 09/939,833
16 <141> CURRENT FILING DATE: 2001-08-28
18 <150> PRIOR APPLICATION NUMBER: US/09/390,326
19 <151> PRIOR FILING DATE: 1999-09-07
21 <160> NUMBER OF SEQ ID NOS: 12
22 <170> SOFTWARE: PatentIn Ver. 2.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 31
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
28 <400> SEQUENCE: 1
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47 <212> TYPE: DNA
48 <213> ORGANISM: Homo sapiens
49 <400> SEQUENCE: 4

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53 <211> LENGTH: 317
54 <212> TYPE: PRT
55 <213> ORGANISM: Homo sapiens
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59      Tyr Asp Ala Ser Lys Trp Glu Phe Pro Arg Asp Arg Leu Lys Leu Gly
60          20          25           30
61      Lys Pro Leu Gly Arg Gly Ala Phe Gly Gln Val Ile Glu Ala Asp Ala
62          35          40           45
63      Phe Gly Ile Asp Lys Thr Ala Thr Cys Arg Thr Val Ala Val Lys Met
64          50          55           60
65      Leu Lys Glu Gly Ala Thr His Ser Glu His Arg Ala Leu Met Ser Glu
66          65          70           75           80
67      Leu Lys Ile Leu Ile His Ile Gly His His Leu Asn Val Val Asn Leu
68          85          90           95
69      Leu Gly Ala Cys Thr Lys Pro Gly Gly Pro Leu Met Val Ile Val Glu
70          100         105          110
71      Phe Cys Lys Phe Gly Asn Leu Ser Thr Tyr Leu Arg Ser Lys Arg Asn
72          115         120          125
73      Glu Phe Val Pro Tyr Lys Glu Ala Pro Glu Asp Leu Tyr Lys Asp Phe
74          130         135          140
75      Leu Thr Leu Glu His Leu Leu Ile Cys Tyr Ser Phe Gln Val Ala Lys
76          145         150          155          160
77      Gly Met Glu Phe Leu Ala Ser Arg Lys Cys Ile His Arg Asp Leu Ala
78          165         170          175
79      Ala Arg Asn Ile Leu Leu Ser Glu Lys Asn Val Val Lys Ile Cys Asp
80          180         185          190
81      Phe Gly Leu Ala Arg Asp Ile Tyr Lys Asp Pro Asp Tyr Val Arg Lys
82          195         200          205
83      Gly Asp Ala Arg Leu Pro Leu Lys Trp Met Ala Pro Glu Thr Ile Phe
84          210         215          220
85      Asp Arg Val Tyr Thr Ile Gln Ser Asp Val Trp Ser Phe Gly Val Leu
86          225         230          235          240
87      Leu Trp Glu Ile Phe Ser Leu Gly Ala Ser Pro Tyr Pro Gly Val Lys
88          245         250          255
89      Ile Asp Glu Glu Phe Cys Arg Arg Leu Lys Glu Gly Thr Arg Met Arg
90          260         265          270
91      Ala Pro Asp Tyr Thr Pro Glu Met Tyr Gln Thr Met Leu Asp Cys
92          275         280          285
93      Trp His Gly Glu Pro Ser Gln Arg Pro Thr Phe Ser Glu Leu Val Glu
94          290         295          300
95      His Leu Gly Asn Leu Leu Gln Ala Asn Ala Gln Gln Asp
96          305         310          315
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 386
100 <212> TYPE: PRT

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101 <213> ORGANISM: E. coli
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105 Gly Leu Val Leu Gly Arg Val Leu Gly Ser Gly Ala Phe Gly Lys Val
106 20 25 30
107 Val Glu Gly Thr Ala Tyr Gly Leu Ser Arg Ser Gln Pro Val Met Lys
108 35 40 45
109 Val Ala Val Lys Met Leu Lys Pro Thr Ala Arg Ser Ser Glu Lys Gln
110 50 55 60
111 Ala Leu Met Ser Glu Leu Lys Ile Met Thr His Leu Gly Pro His Leu
112 65 70 75 80
113 Asn Ile Val Asn Leu Leu Gly Ala Cys Thr Lys Ser Gly Pro Ile Tyr
114 85 90 95
115 Ile Ile Thr Glu Tyr Cys Phe Tyr Gly Asp Leu Val Asn Tyr Leu His
116 100 105 110
117 Lys Asn Arg Asp Ser Phe Leu Ser His His Pro Glu Lys Pro Lys Lys
118 115 120 125
119 Glu Leu Asp Ile Phe Gly Leu Asn Pro Ala Asp Glu Ser Thr Arg Ser
120 130 135 140
121 Tyr Val Ile Leu Ser Phe Glu Asn Asn Gly Asp Tyr Met Asp Met Lys
122 145 150 155 160
123 Gln Ala Asp Thr Thr Gln Tyr Val Pro Met Leu Glu Arg Lys Glu Val
124 165 170 175
125 Ser Lys Tyr Ser Asp Ile Gln Arg Ser Leu Tyr Asp Arg Pro Ala Ser
126 180 185 190
127 Tyr Lys Lys Ser Met Leu Asp Ser Glu Val Lys Asn Leu Leu Ser
128 195 200 205
129 Asp Asp Asn Ser Glu Gly Leu Thr Leu Leu Asp Leu Leu Ser Phe Thr
130 210 215 220
131 Tyr Gln Val Ala Arg Gly Met Glu Phe Leu Ala Ser Lys Asn Cys Val
132 225 230 235 240
133 His Arg Asp Leu Ala Ala Arg Asn Val Leu Leu Ala Gln Gly Lys Ile
134 245 250 255
135 Val Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Met His Asp Ser
136 260 265 270
137 Asn Tyr Val Ser Lys Gly Ser Thr Phe Leu Pro Val Lys Trp Met Ala
138 275 280 285
139 Pro Glu Ser Ile Phe Asp Asn Leu Tyr Thr Thr Leu Ser Asp Val Trp
140 290 295 300
141 Ser Tyr Gly Ile Leu Leu Trp Glu Ile Phe Ser Leu Gly Gly Thr Pro
142 305 310 315 320
143 Tyr Pro Gly Met Met Val Asp Ser Thr Phe Tyr Asn Lys Ile Lys Ser
144 325 330 335
145 Gly Tyr Arg Met Ala Lys Pro Asp His Ala Thr Ser Glu Val Tyr Glu
146 340 345 350
147 Ile Met Val Lys Cys Trp Asn Ser Glu Pro Glu Lys Arg Pro Ser Phe
148 355 360 365
149 Tyr His Leu Ser Glu Ile Val Glu Asn Leu Leu Pro Gly Gln Tyr Lys

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150	370	375	380
151	Lys Ser		
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155 <211>	LENGTH: 310		
156 <212>	TYPE: PRT		
157 <213>	ORGANISM: Homo sapiens		
158 <400>	SEQUENCE: 7		
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160	1 5 10 15		
161	Glu Leu Pro Arg Asp Arg Leu Val Leu Gly Lys Pro Leu Gly Glu Gly		
162	20 25 30		
163	Cys Phe Gly Gln Val Val Leu Ala Glu Ala Ile Gly Leu Asp Lys Asp		
164	35 40 45		
165	Lys Pro Asn Arg Val Thr Lys Val Ala Val Lys Met Leu Lys Ser Asp		
166	50 55 60		
167	Ala Thr Glu Lys Asp Leu Ser Asp Leu Ile Ser Glu Met Glu Met Met		
168	65 70 75 80		
169	Lys Met Ile Gly Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala Cys		
170	85 90 95		
171	Thr Gln Asp Gly Pro Leu Tyr Val Ile Val Glu Tyr Ala Ser Lys Gly		
172	100 105 110		
173	Asn Leu Arg Glu Tyr Leu Gln Ala Arg Arg Pro Pro Gly Leu Glu Tyr		
174	115 120 125		
175	Cys Tyr Asn Pro Ser His Asn Pro Glu Glu Gln Leu Ser Ser Lys Asp		
176	130 135 140		
177	Leu Val Ser Cys Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu Ala		
178	145 150 155 160		
179	Ser Lys Lys Cys Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu Val		
180	165 170 175		
181	Thr Glu Asp Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg Asp		
182	180 185 190		
183	Ile His His Ile Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu Pro		
184	195 200 205		
185	Val Lys Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Ile Tyr Thr His		
186	210 215 220		
187	Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe Thr		
188	225 230 235 240		
189	Leu Gly Gly Ser Pro Tyr Pro Gly Val Pro Val Glu Glu Leu Phe Lys		
190	245 250 255		
191	Leu Leu Lys Glu Gly His Arg Met Asp Lys Pro Ser Asn Cys Thr Asn		
192	260 265 270		
193	Glu Leu Tyr Met Met Met Arg Asp Cys Trp His Ala Val Pro Ser Gln		
194	275 280 285		
195	Arg Pro Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Ile Val Ala		
196	290 295 300		
197	Leu Thr Ser Asn Gln Glu		
198	305 310		
200 <210>	SEQ ID NO: 8		

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Input Set : N:\Crf3\RULE60\09939833.raw
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201 <211> LENGTH: 297
 202 <212> TYPE: PRT
 203 <213> ORGANISM: Homo sapiens
 204 <400> SEQUENCE: 8
 205 Val Phe Pro Cys Ser Val Tyr Val Pro Asp Glu Trp Glu Val Ser Arg
 206 1 5 10 15
 207 Glu Lys Ile Thr Leu Leu Arg Glu Leu Gly Gln Gly Ser Phe Gly Met
 208 20 25 30
 209 Val Tyr Glu Gly Asn Ala Arg Asp Ile Ile Lys Gly Glu Ala Glu Thr
 210 35 40 45
 211 Arg Val Ala Val Lys Thr Val Asn Glu Ser Ala Ser Leu Arg Glu Arg
 212 50 55 60
 213 Ile Glu Phe Leu Asn Glu Ala Ser Val Met Lys Gly Phe Thr Cys His
 214 65 70 75 80
 215 His Val Val Arg Leu Leu Gly Val Val Ser Lys Gly Gln Pro Thr Leu
 216 85 90 95
 217 Val Val Met Glu Leu Met Ala His Gly Asp Leu Lys Ser Tyr Leu Arg
 218 100 105 110
 219 Ser Leu Arg Pro Glu Ala Glu Asn Asn Pro Gly Arg Pro Pro Pro Thr
 220 115 120 125
 221 Leu Gln Glu Met Ile Gln Met Ala Ala Glu Ile Ala Asp Gly Met Ala
 222 130 135 140
 223 Tyr Leu Asn Ala Lys Lys Phe Val His Arg Asp Leu Ala Ala Arg Asn
 224 145 150 155 160
 225 Cys Met Val Ala His Asp Phe Thr Val Lys Ile Gly Asp Phe Gly Met
 226 165 170 175
 227 Thr Arg Asp Ile Tyr Glu Thr Asp Tyr Tyr Arg Lys Gly Gly Lys Gly
 228 180 185 190
 229 Leu Leu Pro Val Arg Trp Met Ala Pro Glu Ser Leu Lys Asp Gly Val
 230 195 200 205
 231 Phe Thr Thr Ser Ser Asp Met Trp Ser Phe Gly Val Val Leu Trp Glu
 232 210 215 220
 233 Ile Thr Ser Leu Ala Glu Gln Pro Tyr Gln Gly Leu Ser Asn Glu Gln
 234 225 230 235 240
 235 Val Leu Lys Phe Val Met Asp Gly Gly Tyr Leu Asp Gln Pro Asp Asn
 236 245 250 255
 237 Cys Pro Glu Arg Val Thr Asp Leu Met Arg Met Cys Trp Gln Phe Asn
 238 260 265 270
 239 Pro Asn Met Arg Pro Thr Phe Leu Glu Ile Val Asn Leu Leu Lys Asp
 240 275 280 285
 241 Asp Leu His Pro Ser Phe Pro Glu Val
 242 290 295
 244 <210> SEQ ID NO: 9
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 246 <212> TYPE: PRT
 247 <213> ORGANISM: Homo sapiens
 248 <400> SEQUENCE: 9
 249 Met Asp Pro Asp Glu Val Pro Leu Asp Glu Gln Cys Glu Arg Leu Pro
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VERIFICATION SUMMARY

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